

L Number	Hits	Search Text	DB	Time stamp
1	2	6,403,491.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 13:38
2	2751	liu.in. and etch\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 13:39
3	1012	(liu.in. and etch\$3) and plasma	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 13:39
4	985	((liu.in. and etch\$3) and plasma) and (wafer or substrate or semiconductor)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 13:46
5	13	(liu.in. and etch\$3) and (Wang-Judy.in. or Komatsu-Takehiko.in. or Pu-Bryan.in. or Doan-Kenny.in. or Bjorkman-Claes.in. or Chang-Melody.in. or Kim-Yunsang.in. or Shan-Hongching.in. or Wang-Ruiping.in.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 13:43
6	15	liu.in. and (Wang-Judy.in. or Komatsu-Takehiko.in. or Pu-Bryan.in. or Doan-Kenny.in. or Bjorkman-Claes.in. or Chang-Melody.in. or Kim-Yunsang.in. or Shan-Hongching.in. or Wang-Ruiping.in.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 13:46
7	2826	(liu.in. or (Wang-Judy.in. or Komatsu-Takehiko.in. or Pu-Bryan.in. or Doan-Kenny.in. or Bjorkman-Claes.in. or Chang-Melody.in. or Kim-Yunsang.in. or Shan-Hongching.in. or Wang-Ruiping.in.)) and etch\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 13:46
8	1082	((liu.in. or (Wang-Judy.in. or Komatsu-Takehiko.in. or Pu-Bryan.in. or Doan-Kenny.in. or Bjorkman-Claes.in. or Chang-Melody.in. or Kim-Yunsang.in. or Shan-Hongching.in. or Wang-Ruiping.in.)) and etch\$3) and plasma	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 13:46
9	1053	((liu.in. or (Wang-Judy.in. or Komatsu-Takehiko.in. or Pu-Bryan.in. or Doan-Kenny.in. or Bjorkman-Claes.in. or Chang-Melody.in. or Kim-Yunsang.in. or Shan-Hongching.in. or Wang-Ruiping.in.)) and etch\$3) and plasma) and (wafer or substrate or semiconductor)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 13:47
10	594	((liu.in. or (Wang-Judy.in. or Komatsu-Takehiko.in. or Pu-Bryan.in. or Doan-Kenny.in. or Bjorkman-Claes.in. or Chang-Melody.in. or Kim-Yunsang.in. or Shan-Hongching.in. or Wang-Ruiping.in.)) and etch\$3) and plasma) and (wafer or substrate or semiconductor)) and gas	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 14:26
11	2	us-20030215569-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 14:28
12	4	((("5647912") or ("6059885") or ("4738748") or ("5647912") or ("4716852") or ("5647912") or ("6059885") or ("5647912") or ("6059885") or ("5647912") or ("6059885"))).PN.	USPAT	2004/11/05 14:32
13	2	jp-2002371361-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 14:40
14	4	((("5647912") or ("6059885") or ("4738748") or ("5647912") or ("4716852") or ("5647912") or ("6059885") or ("5647912") or ("6059885") or ("5647912") or ("6059885"))).PN.	USPAT	2004/11/05 14:39

15	2	jp-2001284269-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 14:46
16	2	6432259.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 14:49
17	9	((("6158384") or ("6143078") or ("6070551") or ("6054013") or ("6036877") or ("6013155") or ("5906683") or ("5772771") or ("5423936"))).PN.	USPAT	2004/11/05 14:50
18	7	((("5522934") or ("6001267") or ("6419751"))).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 14:51
-	190	((showerhead or distribut\$4) same vortex) and (wafer or substrate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 13:36
-	77	((showerhead or distribut\$4) with vortex) and (wafer or substrate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 10:22
-	113	((((showerhead or distribut\$4) same vortex) and (wafer or substrate)) not ((showerhead or distribut\$4) with vortex) and (wafer or substrate))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 10:22
-	455	(gas same vortex) and (wafer or substrate) not (((((showerhead or distribut\$4) same vortex) and (wafer or substrate)) not ((showerhead or distribut\$4) with vortex) and (wafer or substrate))) or (((showerhead or distribut\$4) with vortex) and (wafer or substrate)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/23 11:09
-	455	(gas same vortex) and (wafer or substrate) not (((((showerhead or distribut\$4) same vortex) and (wafer or substrate)) not ((showerhead or distribut\$4) with vortex) and (wafer or substrate))) or (((showerhead or distribut\$4) with vortex) and (wafer or substrate)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 11:35
-	300	(gas with vortex) and (wafer or substrate) not (((((showerhead or distribut\$4) same vortex) and (wafer or substrate)) not ((showerhead or distribut\$4) with vortex) and (wafer or substrate))) or (((showerhead or distribut\$4) with vortex) and (wafer or substrate)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 10:54
-	155	((gas same vortex) and (wafer or substrate) not (((((showerhead or distribut\$4) same vortex) and (wafer or substrate)) not ((showerhead or distribut\$4) with vortex) and (wafer or substrate))) or (((showerhead or distribut\$4) with vortex) and (wafer or substrate))) not ((gas with vortex) and (wafer or substrate) not (((((showerhead or distribut\$4) same vortex) and (wafer or substrate)) not ((showerhead or distribut\$4) with vortex) and (wafer or substrate))) or (((showerhead or distribut\$4) with vortex) and (wafer or substrate))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 10:55
-	301	((showerhead or plate) with (gas and holes and angle)) and (wafer or substrate) not ((gas same vortex) and (wafer or substrate) not (((((showerhead or distribut\$4) same vortex) and (wafer or substrate)) not ((showerhead or distribut\$4) with vortex) and (wafer or substrate))) or (((showerhead or distribut\$4) with vortex) and (wafer or substrate))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 11:08
-	7	((showerhead or plate) with (gas and holes and angle)) and (wafer or substrate) not ((gas same vortex) and (wafer or substrate) not (((((showerhead or distribut\$4) same vortex) and (wafer or substrate)) not ((showerhead or distribut\$4) with vortex) and (wafer or substrate))) or (((showerhead or distribut\$4) with vortex) and (wafer or substrate)))) and vortex	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 11:09

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	11	<p>((("5985102") or ("4632719") or ("5223108") or ("5431799") or ("5653811") or ("5653811") or ("5653811") or ("5894159") or ("5894159") or ("5894159") or ("5480678") or ("5894159") or ("5937304") or ("5894159") or ("5665640") or ("5894159") or ("5733405") or ("5894159") or ("5522934") or ("5976992") or ("5370739") or ("5592581") or ("5613821") or ("5223123") or ("5613821") or ("5613821") or ("5613821") or ("5613821") or ("16171922") or ("5613821") or ("4315333") or ("5474648") or ("5474648") or ("4078167") or ("18192038") or ("13161721") or ("3718170") or ("4266453") or ("4346954") or ("4913461") or ("5253986") or ("5482624") or ("5498023") or ("5607584") or ("5716503") or ("5803298") or ("5588772") or ("5523652") or ("5588772") or ("5523652") or ("4027525") or ("4909806") or ("5747917") or ("4904621") or ("4904621") or ("5812403") or ("4207452") or ("5614026") or ("4904621") or ("4207452") or ("4902934") or ("4915979") or ("4951602") or ("4956204") or ("4986214") or ("4996077") or ("5082685") or ("5134965") or ("5282899") or ("5336533") or ("5376223") or ("5468955") or ("5494522") or ("5510277") or ("5587039") or ("5614055") or ("5627105") or ("5681393") or ("5707485") or ("5824604") or ("4996077") or ("4996077") or ("4996077") or ("4645218") or ("3875068") or ("4996077") or ("5494522") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("3730873") or ("3730873") or ("4996077") or ("4996077") or ("4996077") or ("5255153") or ("4645218") or ("4645218") or ("3730873") or ("4996077") or ("3875068") or ("5494522") or ("4996077") or ("5255153") or ("5255153") or ("4996077") or ("4645218") or ("4645218") or ("4996077") or ("3730873") or ("4996077") or ("4996077") or ("4996077") or ("4996077") or ("4996077") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("3730873") or ("4996077") or ("4996077") or ("5252178") or ("5255153") or ("3730873") or ("5255153") or ("5252178") or ("4645218") or ("4645218") or ("5255153") or ("5252178") or ("3730873") or ("4645218") or ("5252178") or ("5255153") or ("3730873") or ("67101112")).PN.)</p> <p>and equation</p>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 13:33
	3	<p>((("5985102") or ("4632719") or ("5223108") or ("5431799") or ("5653811") or ("5653811") or ("5653811") or ("5894159") or ("5894159") or ("5894159") or ("5480678") or ("5894159") or ("5937304") or ("5894159") or ("5665640") or ("5894159") or ("5733405") or ("5894159") or ("5522934") or ("5976992") or ("5370739") or ("5592581") or ("5613821") or ("5223123") or ("5613821") or ("5613821") or ("5613821") or ("5613821") or ("16171922") or ("5613821") or ("4315333") or ("5474648") or ("5474648") or ("4078167") or ("18192038") or ("13161721") or ("3718170") or ("4266453") or ("4346954") or ("4913461") or ("5253986") or ("5482624") or ("5498023") or ("5607584") or ("5716503") or ("5803298") or ("5588772") or ("5523652") or ("5588772") or ("5523652") or ("4027525") or ("4909806") or ("5747917") or ("4904621") or ("4904621") or ("5812403") or ("4207452") or ("5614026") or ("4904621") or ("4207452") or ("4902934") or ("4915979") or ("4951602") or ("4956204") or ("4986214") or ("4996077") or ("5082685") or ("5134965") or ("5282899") or ("5336533") or ("5376223") or ("5468955") or ("5494522") or ("5510277") or ("5587039") or ("5614055") or ("5627105") or ("5681393") or ("5707485") or ("5824604") or ("4996077") or ("4996077") or ("4996077") or ("4645218") or ("3875068") or ("4996077") or ("5494522") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("3730873") or ("3730873") or ("4996077") or ("4996077") or ("4996077") or ("4996077") or ("4996077") or ("4996077") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("3730873") or ("4996077") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("4996077") or ("3730873") or ("3730873") or ("4996077") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("4996077") or ("4996077") or ("4996077") or ("4996077") or ("4996077") or ("4996077") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("3730873") or ("4996077") or ("4996077") or ("5252178") or ("5255153") or ("3730873") or ("5255153") or ("5252178") or ("4645218") or ("4645218") or ("5255153") or ("5252178") or ("3730873") or ("4645218") or ("5252178") or ("5255153") or ("3730873") or ("67101112")).PN.)</p> <p>and equation</p>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 13:46
580		<p>(holes same (distribut\$4 and equation))</p>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 13:46

-	181	(holes with (distribut\$4 and equation))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 13:49
-	105	zervigon.xa.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 13:49
-	61	zervigon.xa. and distribut\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 13:50
-	15	zervigon.xa. and (distribut\$4 same holes)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 14:09
-	11	((("6042687") or ("5997962") or ("5978202") or ("5968379") or ("5766498") or ("5683537") or ("5207437") or ("5178682") or ("5138520") or ("4689112") or ("4687544")).PN.	USPAT	2002/12/30 13:52
-	2	(zervigon.xa. and (distribut\$4 same holes)) and equation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 13:52
-	2	((("6042687") or ("5997962") or ("5978202") or ("5968379") or ("5766498") or ("5683537") or ("5207437") or ("5178682") or ("5138520") or ("4689112") or ("4687544")).PN.) and equation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 13:54
-	5	((("5138520") or ("5178682") or ("5138520") or ("5178682") or ("5178682") or ("5138520") or ("11161819") or ("5997962") or ("5766498") or ("5997962") or ("12131417") or ("5683537") or ("5997962") or ("11161819") or ("5997962") or ("5997962")).PN.	USPAT	2002/12/30 13:59
-	6	((("4996077") or ("1089112") or ("1089112") or ("3254047") or ("3254047") or ("4230515") or ("4167370") or ("5192849") or ("5192849")).PN.	USPAT	2002/12/30 13:59
-	2	((("4996077") or ("1089112") or ("1089112") or ("3254047") or ("3254047") or ("4230515") or ("4167370") or ("5192849") or ("5192849")).PN.) and equation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 13:59
-	7	((("5592581") or ("5613821") or ("5223123") or ("5613821") or ("5613821") or ("5613821") or ("5613821") or ("16171922") or ("5613821")).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 13:59
-	0	((("5592581") or ("5613821") or ("5223123") or ("5613821") or ("5613821") or ("5613821") or ("5613821") or ("16171922") or ("5613821")).PN.) and equation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 14:00
-	2	((("4078167") or ("18192038") or ("13161721")).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 14:00
-	1513	"951" and equation	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 14:00

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	5	((("4902934") or ("4915979") or ("4951602") or ("4956204") or ("4986214") or ("4996077") or ("5082685") or ("5134965") or ("5282899") or ("5336533") or ("5376223") or ("5468955") or ("5494522") or ("5510277") or ("5587039") or ("5614055") or ("5627105") or ("5681393") or ("5707485") or ("5824604") or ("4996077") or ("4996077") or ("4996077") or ("4645218") or ("3875068") or ("4996077") or ("5494522") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("3730873") or ("3730873") or ("4996077") or ("4996077") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("3730873") or ("4996077") or ("3875068") or ("5494522") or ("4996077") or ("5255153") or ("5255153") or ("4996077") or ("4645218") or ("4645218") or ("4996077") or ("3730873") or ("4996077") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("4996077") or ("4996077") or ("4996077") or ("4996077") or ("4996077") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("3730873") or ("4996077") or ("4996077") or ("4645218") or ("5252178") or ("5255153") or ("3730873") or ("5255153") or ("5252178") or ("4645218") or ("4645218") or ("5255153") or ("5252178") or ("3730873") or ("4645218") or ("5252178") or ("5255153") or ("3730873") or ("67101112"))).PN.) and equation ("5573690").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 14:07
	2		USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 14:08
	39	((("3718170") or ("4266453") or ("4346954") or ("4913461") or ("5253986") or ("5482624") or ("5498023") or ("5607584") or ("5716503") or ("5803298") or ("5588772") or ("5523652") or ("5588772") or ("5523652") or ("4027525") or ("4909806") or ("5747917") or ("4904621") or ("4904621") or ("5812403") or ("4207452") or ("5614026") or ("4904621") or ("4207452"))).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 14:08
	1047	(distribut\$4 same (holes and (relationship or equation)) and radial\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 14:14
	195	((distribut\$4 same (holes and (relationship or equation)) and radial\$2)) and (wafer or substrate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 14:12
	8	("radial distribution" with holes) and (wafer or substrate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 14:52
	4	((("5574958") or ("5425811") or ("5478400") or ("5698168") or ("5478400") or ("5698168"))).PN.	USPAT	2002/12/30 14:53
	2	((("5478400") or ("5698168"))).PN.	USPAT	2002/12/30 14:53
	19	((("3718170") or ("4266453") or ("4346954") or ("4913461") or ("5253986") or ("5482624") or ("5498023") or ("5607584") or ("5716503") or ("5803298") or ("5588772") or ("5523652") or ("5588772") or ("5523652") or ("4027525") or ("4909806") or ("5747917") or ("4904621") or ("4904621") or ("5812403") or ("4207452") or ("5614026") or ("4904621") or ("4207452"))).PN.	USPAT USPAT	2002/12/30 14:54
	6275	"/r"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 14:55
	1	"/r" same (distribution and holes)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/30 14:58

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-	25	((("4902934") or ("4915979") or ("4951602") or ("4956204") or ("4986214") or ("4996077") or ("5082685") or ("5134965") or ("5282899") or ("5336533") or ("5376223") or ("5468955") or ("5494522") or ("5510277") or ("5587039") or ("5614055") or ("5627105") or ("5681393") or ("5707485") or ("5824604") or ("4996077") or ("4996077") or ("4996077") or ("4645218") or ("3875068") or ("4996077") or ("5494522") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("3730873") or ("3730873") or ("4996077") or ("4996077") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("3730873") or ("4996077") or ("3875068") or ("5494522") or ("4996077") or ("5255153") or ("3730873") or ("4996077") or ("4645218") or ("4645218") or ("4996077") or ("3730873") or ("3730873") or ("4996077") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("4996077") or ("4996077") or ("4996077") or ("4996077") or ("4996077") or ("3875068") or ("5494522") or ("5255153") or ("4645218") or ("3730873") or ("4996077") or ("4996077") or ("4645218") or ("5252178") or ("5255153") or ("3730873") or ("5255153") or ("5252178") or ("4645218") or ("4645218") or ("5255153") or ("5252178") or ("3730873") or ("4645218") or ("5252178") or ("5255153") or ("3730873") or ("67101112"))).PN.	USPAT	2002/12/30 15:24
-	2	6403491.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/12/30 15:36
-	3	((("6432259") or ("5248371") or ("6403491") or ("6403491"))).PN.	USPAT	2002/12/30 15:36
-	2	((("5248371") or ("6403491") or ("6403491"))).PN.	USPAT	2004/04/21 14:00
-	2	us-20020144784-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/21 14:00
-	56	(Sakai-Shiro.in. or Takamatsu-Yukichi.in. or Mori-Yuji.in. or Wang-Hong-Xing.in. or Komiya-Yoshinao.in. or Kureha-Reiji.in. or Ishihama-Yoshiyasu.in. or Amijuma-Yutaka.in. ) and (CVD or "chemical vapor deposition")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/04/21 14:20
-	7	(US-6432259-\$ or US-6403491-\$ or US-6436193-\$ or US-6381021-\$ or US-6302964-\$ or US-6302965-\$.did. or (JP-11265846-\$.did.	USPAT; DERWENT	2004/04/21 14:22